

①

4 Prim.

Experiment ().

(A): Label the following:

1)-----

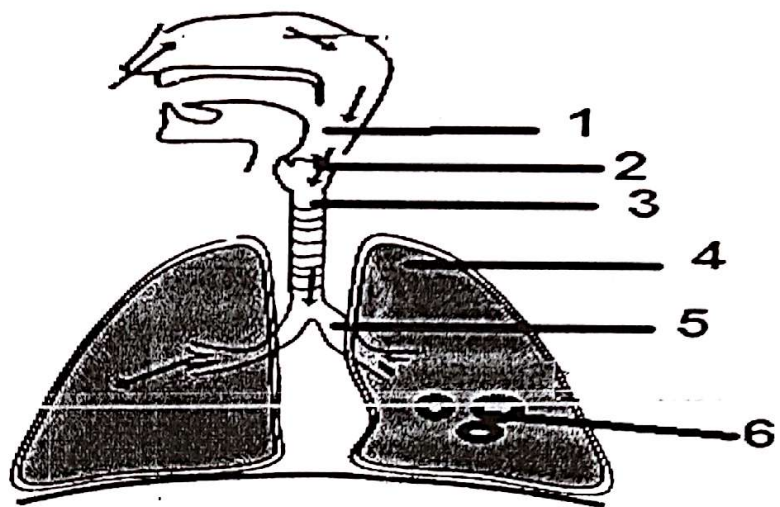
2) larynx

3)-----

4)-----

5) bronchus

6)-----



(B) Complete the following:

1- The diaphragm contract during -----process and
relax during ----- process

2- This system is known as----- system

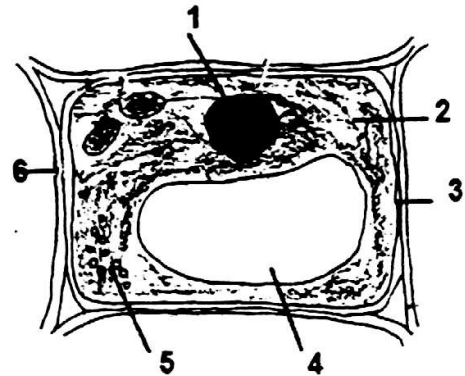
3-In the electric lamp, the ----- energy changes into..... energy.

4- In the motor, the ----- energy changes into.....energy

5- Crbondioxide change clear lime water into -----

Experiment (3).**(A): Label the following:**

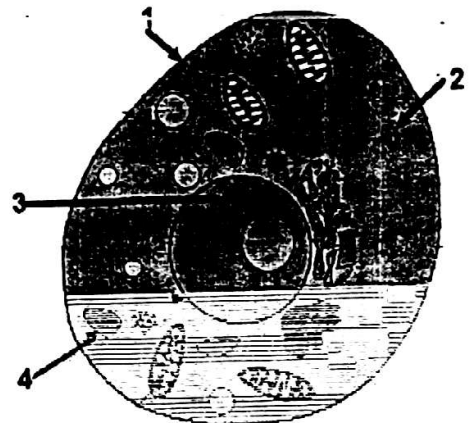
- 1- Nucleus
- 2- Cytoplasm
- 3- Cell membrane
- 4- Vacuole
- 5- Chloroplasts
- 6- Cell wall

**(B) Complete the following:**

- 1- The nucleus is responsible for cell division
- 2- This cell is called the plant cell

Experiment (4).**(A): Label the following:**

- 1- Cell membrane
- 2- Cytoplasm
- 3- Nucleus
- 4- Vacuole

**(B) Write the name of the part which is responsible for:**

Function	Part responsible for this function
Cell division	Nucleus
Biological operations	Cytoplasm
Include the components of the cell	Cell membrane

(C)- This cell is called the animal cell

3

4 Prim.

Experiment (4).

(A): Label the following:

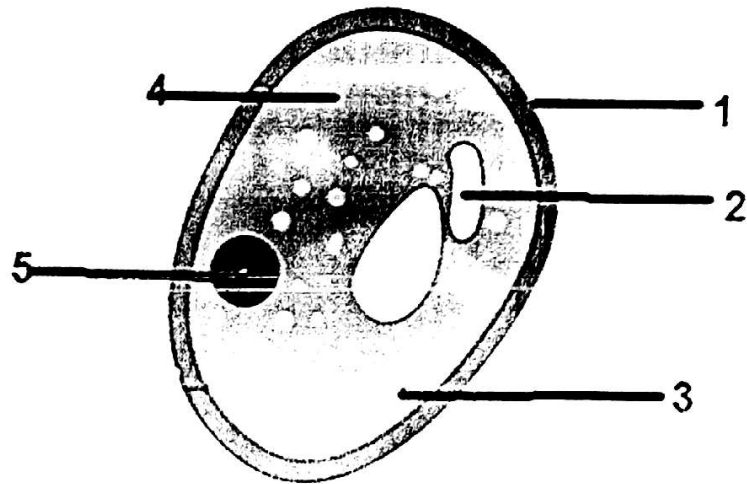
1)-----

2)-----

3)-----

4-) Food storage granule

5)-----



(B) Complete the following:

1- This cell is called the -----

2- It is used in making ----- & -----

3- In the motor, the ----- energy changes into..... energy

4- In the electric lamp, the ----- energy changes into.....

5- iodine solution change the color of starch into -----

Lesson 2

Forms of energy and their changes

Energy :-

- It's the ability to do work

Forms of energy :-

- 1- Potential energy .
- 2- Kinetic energy .
- 3- Sound energy .
- 5- Electric energy
- 6- Chemical energy
- 7- Heat energy .
- 4- Light energy .

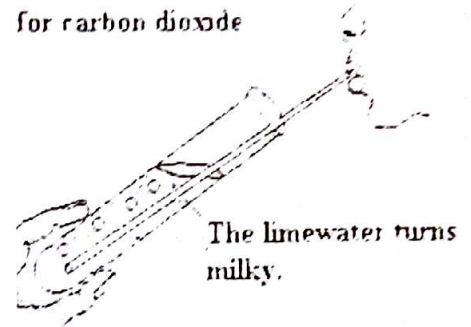
Equipment	Used Energy	Produced Energy	Equipment	Used Energy	Produced Energy
Electric fan	Electric	Kinetic	Electric motor	Electric	Kinetic
Electric lamp	Electric	Light	Violin	Kinetic	Sound
Electric heater	Electric	Heat	Solar cell	Light	Electric
Radio	Electric	Sound	Solar heater	Light	Heat
Dynamo	Kinetic	Electric	Battery (Dry cell)	Chemical	Electric
When you stretch the spring of toy car	Kinetic	Potential	When you let the string of toy car	Potential	Kinetic
When you rubbing you hand	Kinetic	Heat	Photosynthesis	Light	Chemical
Lens in the sun	Light	Heat			

Experiment ()

A. The exhaled air contains carbon dioxide gas:

- Step: Blow in a test tube containing lime water.
- Observation: The clear lime water becomes turbid.
- Conclusion: The exhaled air contains carbon dioxide.

Limewater test
for carbon dioxide



The limewater turns milky.



B. The exhaled air contains water vapor:

- Step: Blow in front of a mirror or a glass sheet.
- Observation: Water vapor condenses on the mirror forming droplets.
- Conclusion: The exhaled air contains water vapor.

1-The building unit of living organisms. -----

2 - electric lamp change ----- energy into ----- energy

3- green plant is from ----- but lion is from ----- living organism

4-types of electricity----- and -----

Current electricity

Current electricity :

It is the electric charges that follow through connecting wires.

Formation of an electric circuit:

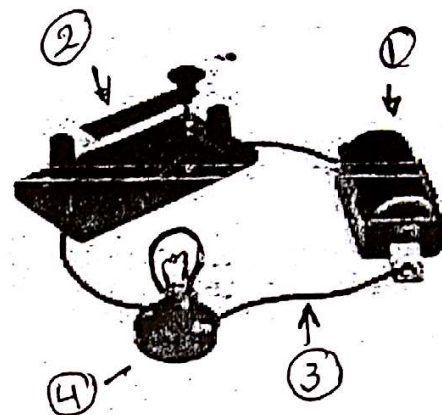
- Set up an electric circuit as shown in the figure

1 - -----

3 - -----

2 - -----

4 - -----



1- The battery: It is the source of electric current.

2- The switch: It is used to close and open the electric circuit.

3- The wires: They are used to transfer electric current from battery to lamp.

4- electric Lamp :

1-The building unit of living organisms. -----

2 - electric lamp change ----- energy into ----- energy

3- green plant is from ----- but lion is from ----- living organism

4-types of electricity----- and -----